

# Michael Potts

Data Science, Statistics, Machine Learning

Alberta, Canada

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## PORTFOLIO

Website: [michael-j-potts.github.io](https://michael-j-potts.github.io)

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## OBJECTIVE —

Master of Computer Science Graduate with experience as a statistician and data analyst seeking a role within the field of analytics, data science, and machine learning

## EDUCATION —

University of Illinois – Urbana Champaign  
Master of Computer Science (Data Science)

2021-2022 GPA – 3.9

- Applied Machine Learning
- Internet of Things A+
- Deep Learning for Health Care
- Advanced Bayesian modeling
- Data Visualization A+
- Theory and Practice of Data Cleaning
- Foundations of data curation
- Text Information Systems A+

## KEY SKILLS —

**Primary Languages:** Python, C++, R, Java, MySQL, SAS

**Secondary Languages:** Javascript, HTML, CSS

**Frameworks:** Pytorch, Tensorflow

**Libraries:** Sklearn, OpenCV, Matplotlib, Kivy, D3, Apache Spark

**Tools/Software:** SPSS, Git, Linux, Excel, OpenRefine, Tableau, AWS, Docker, SaS

**Environments:** Jupyter, Anaconda

## EXPERIENCE

*March 2024 – Current*

*Data Analyst • ANFCA*

- Collaborated with cross-functional teams to plan, develop, and implement innovative educational and data collection strategies.
- Extracted and transferred data from hundreds of Microsoft Word documents into Excel spreadsheets to facilitate comprehensive statistical analysis.
- Leveraged data visualization tools such as charts, graphs, and infographics to effectively illustrate findings and make them accessible to diverse audiences.

*March 2023 – January 2024*

*Statistician and Health Care Researcher • Canuck Place Children's Hospice*

- Collaborated with the medical director on palliative care research.
- Executed machine learning models, geo-analytical methods, and statistical analysis.
- Forecasted palliative care needs in BC using predictive analytics.
- Delivered data-driven insights and presentations to stakeholders.

*2020 – Jan. 2022*

*Research Assistant • TLEC Innovations*

- Researched and analyzed chemical catalyst structures for exhaust recapture prototype.
- Contributed to R&D and innovation in emission control technologies.
- Developed and edited corporate proposals and technical presentations.

## PROJECTS

**Deep Learning**

- Completed assignments on deep learning, CNNs, Seq2Seq, RNNs, autoencoders, attention models, GNNs, memory networks, and generative models.
- Recreated and enhanced a latent space correlational neural network model.

**Internet of Things**

- Developed a diabetic foot monitor and app for trauma detection and care monitoring.
- Built a self-driving car with coordinate input, object detection, obstacle avoidance, and intelligent obstacle handling.

**Applied Machine Learning**

- Completed assignments on classification, regression, clustering, expectation-maximization, high-dimensional data, and convolutional neural networks.
- Predicted vehicle GHG emissions using a dataset of 16.3 million vehicles.